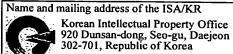
PATENT COOPERATION TREATY

From the

INTERNATIONAL	SEARCHING AUTHORITY
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To:		DCT			
SOHN, Chang Kyu		PCI			
1403, Seongji Heights 2-cha Bldg. 642-16, Yoksam 1-dong, Kangnam-gu Seoul 135-910 Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
		Date of mailing (day/month/year) 07 APRIL 2006 (07.04.2006)			
Applicant's or agent's file reference LC05PCT042		FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/KR2005/004439	International filing date 22 DECEMBER 2		Priority date(day/month/year) 04 JULY 2005 (04.07.2005)		
International Patent Classification (IPC) o C08F 293/00(2006.01)i Applicant LG CHEM, LTD. et al	or both national classifica	tion and IPC			
This opinion contains indications relat	tion to the College in the				
Box No. I Basis of the opin		is:			
Box No. II Priority					
	ent of opinion with regard	d to novelty inventive	sten and industrial applicability		
	The state of the s				
Box No. V Reasoned statem					
					
Box No. VII Certain defects	in the international appli	cation			
Box No. VIII Certain observati	ions on the international	application			
 FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 					



Facsimile No. 82-42-472-7140

05 APRIL 2006 (05.04.2006)

Date of completion of this opinion

Authorized officer

HUR, Soo Joon

Telephone No.82-42-481-5595



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/004439

Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	on paper
	in electronic form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2005/004439

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-18	YES
	Claims NONE	NO
Inventive step (IS)	Claims 11-14, 16-18	YES
	Claims 1-10,15	NO
Industrial applicability (IA)	Claims 1-18	YES
	Claims NONE	NO

2. Citations and explanations:

Reference is made to the following documents:

D1: KR 1999-80695 A D2: US 6160084 A

1. Novelty

Claims 1-6, 10 of the present invention relate to a block copolymer of monomers represented by formula (1) and (2). Claims 7-9, 15 relate to a method of preparing said block copolymer using a specific strain. Claims 11-14 relate to a short-chain-length PHA synthetic gene of a Pseudomonas sp. HJ-2 strain. Claims 16-18 relate to a variety of usages of said block copolymer. The above subject matters are not disclosed in D1 and D2. Thus the above claims are considered novel under PCT Article 33(2).

2. Inventive Step

The block copolymer of claim 1 comprises 3-hydroxybutyrate of formula 1 and 3-hydroxyvalerate of formula 2, which are the same as formula 1 and formula 2 of claim 5 of D1. Thus a person skilled in the art is considered to easily invent the present copolymer only by differentiating the amount of the composing monomers from D1. Accordingly claim 1 is not inventive under PCT Article 33(3). Though claims 2-6 define the technical feature of claim 1 in greater detail, the definition is not remarkable. Thus claims 2-6 are not inventive.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/004439

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In case the space in any of the preceding boxes is not sufficient. Continuation of:

Claims 7-9, 15 relate to a method of preparing said block copolymer using Pseudomonas sp. HJ-2 strain, which can be easily performed by a person skilled in the art from the invention of claims 1-4 of D1. Thus claims 7-9,15 are not inventive.

3. Industrial Applicability

The present invention is industrially applicable under PCT Article 33(4).